



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
Group Art Unit 1638

1638A
Image

Patent Application of

Vincent L. Chiang, et al.

Application No. 09/980,043

Confirmation No.: 9579

Filed: April 5, 2002

Examiner: Medina Ahmed Ibrahim

"METHOD OF ENHANCING CELLULOSE AND
MODIFYING LIGNIN BIOSYNTHESIS IN
PLANTS"

I, Leslie Lindsay Smith, hereby certify that this correspondence is being deposited with the US Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date of my signature.

L. L. Smith

Signature

05 Nov. 2003

Date of Signature

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 CFR §1.97(c).

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The Examiner's attention is directed to the references which are listed on the attached Form PTO/SB/08A and/or PTO/SB/08B and copies of which are attached. This Statement is also being accompanied by a check in payment of the \$180.00 fee required under 37 CFR §1.17(p). Please charge or credit Deposit Account No. 13-3080 with any shortage or overpayment of the required fee.

Citation of these references is respectfully requested.

No concession is made that these documents are prior art, and Applicant expressly reserves the right to antedate the documents as may be appropriate.

11/13/2003 GWORDOF1 00000050 09980043

01 FC:1806

180.00 DP

Respectfully submitted,

Charlene L. Yager
Charlene L. Yager
Reg. No. 48,887

File No. 066040-9675

Michael Best & Friedrich LLP
100 East Wisconsin Avenue
Milwaukee, Wisconsin 53202-4108

(414) 271-6560

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute of form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	09/980,043
		Filing Date	April 5, 2002
		First Name Inventor	Vincent L. Chiang
		Group Art Unit	1638
		Examiner Name	Medina Ahmed Ibrahim
(use as many sheets as necessary)		Attorney Docket Number	066040-9675
Sheet	1	of	1

U.S. PATENT DOCUMENTS			
Examiner Initials	Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
50	6,271,443	Stalker <i>et al.</i>	7 August 2001
51	6,303,847	Kawaoka <i>et al.</i>	16 October 2001
52	6,013,860	Himmel <i>et al.</i>	11 January 2000
53	5,654,190	Matsunaga <i>et al.</i>	5 August 1997

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
54	EP	0 875 575	Nisshinbo Industries, Inc.	4 November 1998		
55	WO	00/22092 (equivalent to: CL 23226-99 EP 1123404)	Genesis Research and Development Corporation Limited	20 April 2000		

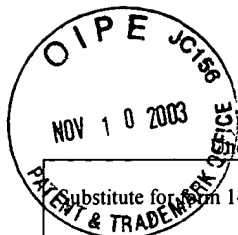
X:\clientb\066040\9675\B0260050.1

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer. Patent and Trademark Office, Washington, DC 0231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box Alexandria, VA 22313-1450.



PTO/SB/08B

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for Form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet	1	of	2	Attorney Docket Number	066040-9675
-------	---	----	---	------------------------	-------------

Complete if Known

Application Number	09/980,043
Filing Date	April 5, 2002
First Named Inventor	Vincent L. Chiang
Group Art Unit	1638
Examiner Name	Medina Ahmed Ibrahim
Attorney Docket Number	066040-9675

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
	56	Database EMBL Online, 23 June 1998, Wu. L., Joshi, CP, Chiang, VL, "Populus tremuloides secondary xylem cellulose synthase (ce1A) mRNA, complete cds." EBI Database accession no. af072131, Abstract.
	57	DATABASE SWALL Online, 1 May 1997, "Cellulose synthase, CELA1", accession no. P93155, Abstract.
	58	DATABASE SWALL Online, 1 November 1998, "Secondary xylem cellulose synthase (ce1A) mRNA, complete cds." EBI Database accession no. 081368, Abstract.
	59	Nakai, <i>et al.</i> , "Control of expression by the cellulose synthase (<i>bcsA</i>) promoter region from <i>Acetobacter xylinum</i> BPR 2002", <i>Gene</i> , 213(1-2):93-100, (1998).
	60	Hutchinson, C., <i>et al.</i> , "Mutagenesis at a Specific Position in a DNA Sequence", <i>J. Biol. Chem.</i> , 253(18):6551-6560 (1978).
	61	Esau, K., <i>Plant Anatomy</i> , 2 nd ed. New York: Wiley (1953).
	62	Esau, K., <i>Anatomy of Seed Plants</i> , New York: Wiley (1960).
	63	Esau, K., <i>Vascular Differentiation in Plants</i> , New York: Holt, Rinehart & Winston (1965).
	64	Esau, K., <i>et al.</i> , "Observations on Cytokinesis", <i>Planta</i> (Berl.) 67, 168-181 (1965).

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/08B

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

PTO Form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

Application Number	09/980,043
Filing Date	April 5, 2002
First Named Inventor	Vincent L. Chiang
Group Art Unit	1638
Examiner Name	Medina Ahmed Ibrahim
Attorney Docket Number	066040-9675

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
	65	Esau, K., "Anatomy of Plant Virus Infections", <i>Annu. Rev. Phytopathol.</i> 5:45-76 (1967).
	66	Zhou Y., <i>et al.</i> , "Molecular cloning of cellulose synthase genes from loblolly pine", Poster presented at American Society of Plant Biologists annual meeting at Denver, CO, August 2-7, 2002, Abstract 321.
	67	Lu, Shan-Fa, <i>et al.</i> , "Molecular cloning and characterization of three cellulose synthases associated with xylem development in <i>eucalyptus grandis</i> , Poster presented at American Society of Plant Biologists annual meeting at Denver, CO, August 2-7, 2002, Abstract 320.
	68	Ye and Varner, <i>Plant Physiology</i> 103(3):805-813 (November 1993).
	69	Ye and Varner, <i>Methods in Enzymology</i> 218:671-681 (1993).

X:\clientb\066040\9675\B0260064.1

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.